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(54) Title: A PROCESS FOR THE PREPARATION OF A HYDROGENATED POLYMER

(57) **Abstract:** This invention relates to a process for the preparation of a hydrogenated polymer comprising the steps of hydrogenation of at least one carbon-carbon double bond of an unsaturated polymer in latex in the presence of hydrazine, an oxidizing compound and a catalyst, followed by separation of the hydrogenated polymer from the latex. After the separation of the hydrogenated polymer from the latex a mixing step is carried out in which the hydrogenated polymer is first mixed with an amine group containing compound and next the hydrogenated polymer is mixed with a compound that is capable of reacting with an amine. The invention also relates to the hydrogenated polymer. The invention further relates to the use of this polymer in a compounds to make an article by shaping and vulcanisation.

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